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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/693,610	10/27/2003	Roger R. Smith	050377-0306115	6473
909	7590	05/12/2005	EXAMINER	
PILLSBURY WINTHROP SHAW PITTMAN, LLP			TALBOT, MICHAEL	
P.O. BOX 10500			ART UNIT	
MCLEAN, VA 22102			PAPER NUMBER	

3722

DATE MAILED: 05/12/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

SP

Office Action Summary	Application No. 10/693,610	Applicant(s) SMITH, ROGER R.	
	Examiner Michael W Talbot	Art Unit 3722	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 October 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-27 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-11, 14-24 and 27 is/are rejected.
- 7) ☒ Claim(s) 12, 13, 25 and 26 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 27 October 2003 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Drawings

1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference characters "4" and "40" have both been used to designate the "order hole" in Figures 2 and Figures 1,3 and 4 respectively. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

In addition to Replacement Sheets containing the corrected drawing figure(s), applicant is required to submit a marked-up copy of each Replacement Sheet including annotations indicating the changes made to the previous version. The marked-up copy must be clearly labeled as "Annotated Sheets" and must be presented in the amendment or remarks section that explains the change(s) to the drawings. See 37 CFR 1.121(d)(1). Failure to timely submit the proposed drawing and marked-up copy will result in the abandonment of the application.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6,8-11,14-19,21-24 and 27 are rejected under 35 U.S.C. 102(b) as being anticipated by Elbe '182. Elbe '182 shows in Figures 1 and 2 a force limiting workpiece holding device having a spindle (b), a closer (b²) that applies a force, a workpiece holder (collet) slidably mounted to the spindle including a plurality of circumferentially-spaced gripping segments (D) and a force limiting coupling structure (A) including a biasing structure (a⁷) having a spring force positioned between the workpiece holder and the closer such that the force applied by the closer is transferred to the workpiece holder through the coupling structure and biasing structure whereby the resultant force is limited to the spring force of the biasing structure. Elbe '182 further shows the workpiece holder including outwardly facing cam surfaces (d¹) that slidably engage inwardly facing cam surfaces (f) provided on a tapered cap (F) mounted to the spindle. Elbe '182 further shows the closer including a draw bar (b¹) that interconnects the closer and the coupling structure. Elbe '182 further shows the coupling structure having an elongated stem (a¹) having one end (a²) mounted to the workpiece holder and an opposite end coupled to a spacer (a⁴) providing a first support surface, the coupler (A) providing a second support surface (a⁸) slidably mounted to the elongated stem between the spacer and the workpiece holder, and the biasing structure positioned between the spacer and the workpiece holder such that the ends rest on the first and second support surfaces whereby a force applied by the closer is transferred from the draw bar to the coupler, then from the coupler through the biasing structure and to the spacer, and finally from the spacer to the stem and workpiece holder. Elbe '182 further shows the coupler having a stroke length with respect to the elongated stem that is sufficiently larger than a stroke length of the closer (Fig. 1). Elbe '182 further shows the coupling structure including a fastener (a⁵) threadably engaged with the elongated stem to support the spacer and to adjust the position of the spacer thereby pretensioning the biasing structure.

Claims 1-8,14-21 and 27 are rejected under 35 U.S.C. 102(b) as being anticipated by Curtis '855. Curtis '855 shows in Figure 2 a force limiting workpiece holding device having a spindle (8), a hydraulic closer (62 and col. 1, lines 40-41) that applies a force, a workpiece holder (32) slidably mounted to the spindle including a plurality of circumferentially-spaced gripping segments (col. 3, lines 34-37) and a force limiting coupling structure (14) including a biasing structure (78,86) having a spring force positioned between the workpiece holder and the closer such that the force applied by the closer is transferred to the workpiece holder through the coupling structure and biasing structure whereby the resultant force is limited to the spring force of the biasing structure. Curtis '855 further shows the workpiece holder including outwardly facing cam surfaces (40) that slidably engage inwardly facing cam surfaces (42) provided on a tapered cap (4) mounted to the spindle. Curtis '855 further shows the closer including a draw bar (62) that interconnects the closer and the coupling structure.

Claims 1-6,8,14-19,21 and 27 are rejected under 35 U.S.C. 102(b) as being anticipated by Atkinson, III '095. Atkinson, III '095 shows in Figures 1-3 a force limiting workpiece holding device having a spindle (10), a closer (col. 2, lines 65-68) that applies a force, a workpiece holder (C) slidably mounted to the spindle including a plurality of circumferentially-spaced gripping segments and a force limiting coupling structure (34,38) including a biasing structure (40) having a spring force positioned between the workpiece holder and the closer such that the force applied by the closer is transferred to the workpiece holder through the coupling structure and biasing structure whereby the resultant force is limited to the spring force of the biasing structure. Atkinson, III '095 further shows the workpiece holder including outwardly facing cam surfaces that slidably engage inwardly facing cam surfaces (18) provided on a tapered cap (14) mounted to the spindle. Curtis '855 further shows the closer including a draw bar (48) that interconnects the closer and the coupling structure.

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Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 7 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Atkinson, III '095 in view of Curtis '855. Atkinson, III '095 lacks a specific reference to the conventional collet actuating mechanism, i.e. closer, being of hydraulic type. Curtis '855 describes in col. 1, lines 40-41 a hydraulically operated piston to actuate the draw bar. In view of this teaching of Curtis '855, it is considered to have been obvious to include the referenced hydraulic actuating means of Curtis '855 to be encompassed within the known conventional collet actuating means referenced by Atkinson, III '095.

Allowable Subject Matter

4. Claims 12,13,25 and 26 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

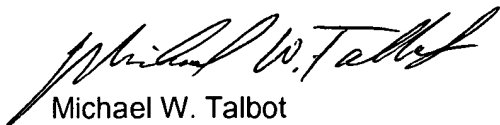
5. Any inquiry concerning the content of this communication from the examiner should be directed to Michael W. Talbot, whose telephone number is 571-272-4481. The examiner's office hours are typically 8:30am until 5:00pm, Monday through Friday. The examiner's supervisor, Mr. Derris Banks, may be reached at 571-272-4419.

In order to reduce pendency and avoid potential delays, Group 3720 is encouraging FAXing of responses to Office Actions directly into the Group at FAX number 703-872-9306. This practice may be used for filing papers not requiring a fee. It may also be used for filing

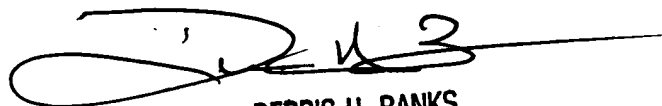
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papers, which require a fee, by applicants who authorize charges to a USPTO deposit account.

Please identify Examiner Michael W. Talbot of Art Unit 3722 at the top of your cover sheet.

A handwritten signature in cursive script, appearing to read "Michael W. Talbot".

Michael W. Talbot
Examiner
Art Unit 3722

A handwritten signature in cursive script, appearing to read "D. H. Banks".

DERRIS H. BANKS
SUPERVISORY PATENT EXAMINER
PCV CENTER 3700